

Details of the Environmental and Social Code of Practices (ESCoPs)

Based on the proposed activities of the project, it is expected that the E&S impacts will be localized and minor, which will be addressed through adequate mitigation measures and related guidelines incorporated in this E&S Code of Practices (ESCoP). The ESCoPs will provide guidelines for the best operating practices through environmental and social management to be followed by the contractors and relevant staff during installation of gas meters and related small-scale activities for sustainable management of all environmental and social issues.

ESCoP 1: Waste Management

Project Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
General Waste	Minor waste generated from installing of meters. Might create debris in the local areas and impact the environment.	<p>The Contractor shall</p> <ul style="list-style-type: none"> • Ensure waste management through developing a plan for various specific waste generated from basic works for installing meters. • Organize disposal of all wastes generated during installation of meters and minor works (including disposal of old gas pipes) in an environmentally acceptable manner. This will include consideration of the nature and location of disposal site, to cause less environmental impact. • Minimize the production of waste materials by 3R (Reduce, Recycle and Reuse) approach. • Segregate and reuse or recycle all the wastes, wherever practical. • Collect and transport non-hazardous wastes to all the approved disposal sites. Vehicles transporting solid waste shall be covered with tarps or nets to prevent spilling waste along the route • Train and instruct all personnel in waste management practices and procedures as a component of the environmental induction process. • Request suppliers to minimize packaging where practicable. • Place a high emphasis on good housekeeping practices. • Maintain all project sites in a cleaner, tidy and safe condition and provide and maintain appropriate facilities including disposal of some parts of old gas pipes as temporary storage of all wastes before transportation and final disposal.

ESCoP 2: Dust Management

Project Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
Installing meters to generate dust due to minor	Dust generation from installing meters in project sites might impact	The Contractor shall

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works and other activities	environment, air quality and health hazardous.	<ul style="list-style-type: none"> Minimize the discharge of dust from the installing due to welding, making extensions from the existing pipelines extent. Instantly spray water to minimize the spreading of the dust in the air. Establish adequate locations for storage, mixing of materials, in a way that dust dispersion is prevented because of such operations
Commissioning gas will require purging	Nitrogen gas will be required while purging during gas commissioning might result in hazardous gas release in the air.	<p>The contractor shall</p> <ul style="list-style-type: none"> Ensure to adequate safety while cleaning the pipes with nitrogen gas before commissioning gas so as to avoid polluting the air. Ensure to avoid any gas leakage in the air by checking the pipes before commissioning gas.

ESCoP 3: Noise and Vibration Management

Project Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
Installing Meters	Noise and vibration may have an impact on people, property, livestock and the natural environment.	<p>The Contractor shall</p> <ul style="list-style-type: none"> Appropriately site all noise generating activities to avoid noise pollution to local residents Use the quietest available equipment Modify equipment to reduce noise (for example, noise control kits, etc) Maintain all equipment in order to keep it in good working order in accordance with manufactures maintenance procedures. Equipment suppliers and contractors shall present proof of maintenance register of their equipment. Avoid the unnecessary use of alarms, horns and sirens.
Work Activities	Noise and vibration may have an impact on people, property, neighborhood, community, livestock and the natural environment.	<p>The Contractor shall</p> <ul style="list-style-type: none"> Notify adjacent landholders, neighbors, community prior any typical noise events outside of daylight hours Educate the operators of equipment on potential noise problems and the techniques to minimize noise emissions Employ best available work practices on-site to minimize occupational noise levels Install temporary noise control barriers where appropriate Plan activities on site and deliveries to and from site to minimize impact Avoid undertaking noisiest activities, where possible, when working at night near the residential areas.

ESCoP 4: Labor Camp Management (If it is established)

Project Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
Location of labor camps and its facilities	Campsites for workers are the important locations that have impacts such as health and safety hazards on local resources and infrastructure of nearby communities.	The Contractor shall <ul style="list-style-type: none"> • Locate the labor camps at areas which are acceptable from environmental, cultural, or social point of view. The detailed layout plan for the development of the camp to be approved by the respective Employer prior to set up of camp. • Adequate accommodation for all workers with Safe and reliable water supply and hygienic sanitary facilities and sewerage system. • Implement the LMP
Safety	In adequate safety facilities to the construction camps may create security problems and fire hazards	The Contractor shall <ul style="list-style-type: none"> • Provide appropriate security personnel and enclosures to prevent unauthorized entry in to the camp area. • Maintain register to keep a track on a head count of persons present in the camp at any given time. • Provide appropriate type of firefighting equipment suitable for the construction camps • Display emergency contact numbers clearly and prominently at strategic places in camps. • Communicate the roles and responsibilities of laborers in case of emergency in the monthly meetings with contractors

ESCoP 5: Workers' Health and Safety

Project Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
Best practices	Work activities may pose health and safety risks to the workers and site visitors leading to injuries. The population in the proximity of the construction site and the construction workers will be exposed to a number of (i) biophysical health risk factors, (e.g. noise, dust, material, waste, etc), (ii) risk factors resulting from human behavior (e.g. STD, HIV etc) and (iii) road	The Contractor shall <ul style="list-style-type: none"> • Implement suitable safety standards for all workers and site visitors which shall not be less than those laid down on the international standards (e.g., International Labor Office guideline on 'Safety and Health in Construction; World Bank Group's 'Environmental Health and Safety Guidelines') and contractor's own national standards or statutory regulations, in addition to complying with the national standards of the Government of Bangladesh (e.g. 'The Bangladesh Labor Code, 2006') • Provide the workers with a safe and healthy work environment, taking into account inherent risks in its particular work activities and specific classes of hazards in the work areas, • Provide personal protection equipment (PPE) for workers, such as safety boots, helmets, masks, gloves,

Project Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
	accidents from construction traffic.	<p>protective clothing, goggles, full-face eye shields, and ear protection as applicable for the purpose of the work. Maintain the PPE properly by cleaning dirty ones and replacing them with the damaged ones.</p> <ul style="list-style-type: none"> • Safety procedures include provision of information, training and protective clothing to workers involved in operations and proper performance of their job • Appoint an environment, health and safety manager to look after the health and safety of the workers • Inform the local authorities responsible for health, religious and security duly informed before commencement of works and establishment of rest areas so as to maintain effective surveillance over public health, social and security matters.
	Child and pregnant labor	<p>The Contractor shall</p> <ul style="list-style-type: none"> • not hire children of less than 14 years of age and pregnant women or women who delivered a child within 8 preceding weeks, in accordance with the Bangladesh Labor Code, 2006
Accidents due to gas leakage	<p>Gas leakage might cause injuries during installation.</p> <p>Lack of first aid facilities and health care facilities in the immediate vicinity will aggravate the health conditions of the victims</p>	<ul style="list-style-type: none"> • Ensure no smoking during work. Provide appropriate type of firefighting equipment. • Provide health care facilities and first aid facilities are readily available in case of injury due to leakage. Appropriately equipped first-aid stations shall be easily accessible throughout the place of work • Document and report occupational accidents, diseases, and incidents. • Prevent accidents, injury, and disease arising from, associated with, or occurring in the course of work by minimizing, so far as reasonably practicable, the causes of hazards. In a manner consistent with good international industry practices. • Identify potential hazards to workers, particularly those that may be life-threatening and provide necessary preventive and protective measures. • Provide awareness to the drivers to strictly follow the driving rules • Provide adequate lighting in the project area and along the roads
SEA/SH	Potential risks on SEA/SH of workers.	The Contractor shall ensure sufficient measures to avoid any SEA/SH issues and protection of all workers. The contractor will ensure SEA/SH responsive GRM, prepare and adopt CoC and use zero tolerance signage for SEA/SH/GBV.
Trainings	Lack of awareness and basic knowledge in health care among the construction workforce, make them susceptible to potential diseases.	<p>The Contractor shall</p> <ul style="list-style-type: none"> • Train all workers in basic sanitation and health care issues (e.g., how to avoid malaria and transmission of other diseases). • Train all workers in general health and safety matters, and on the specific hazards of their work Training shall consist of basic hazard awareness, site specific hazards,

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		safe work practices, and emergency procedures for fire, evacuation, and natural disaster, as appropriate.

ESCoP 6: Stakeholder Consultation

Project Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
Selection of project sites.	Without proper or inadequate consultation with the appropriate stakeholders, there might have serious difficulties in implementing safeguards instruments (LMP, SEP, ESCOP, ESCP) and eventually to reach the goal set by the project.	<p>The Contractor shall</p> <ul style="list-style-type: none"> • Identify potential stakeholders before starting the construction works, and devise the mechanism to consult effectively with them • Communicate to the public through community consultation and other means of communication, as appropriate, regarding the scope and schedule of work, as well as environmental and social risk that may arise and project’s mitigation measures. • Make regular efforts to keep stakeholders informed on project implementation. • Make available all the project documents (including design, drawing, etc.) at site for all interested stakeholders. • Notify and consult through relevant staffs, with the surrounding community people, disadvantaged or vulnerable groups, and workers, other parties as necessary, about the presence and working procedure of project grievance system. These could be done in conducting FGDs. • Provide telephone number/hotline and address all the grievances received and record them. • Prepare and install project signboard (containing items of works, budget, schedule, GRC contact point, etc.) and posters on different safety rules and services associated with the site management. • Respond and address grievances in a timely manner, forward unresolved grievances to the next level at earliest.

ESCoP 7: Chance Find procedure

This is not relevant. However, it is useful to include mitigation measures in case if there is any during the work.

Project Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
Installation of meters	Impact in any cultural heritage	<p>The Contractor shall</p> <ul style="list-style-type: none"> • Ensure that if meters are installed in protected sections of the city, homes / buildings of historical/ cultural value, these activities will comply with applicable GIIP and local ordinances/regulations. • Include chance finds procedures in works contracts requiring to stop construction if cultural heritage is

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		encountered during any work and to notify and closely coordinate with relevant mandated country authority for the salvaging and restoration of such cultural heritage.

ESCoP 8: Road Transport and Road Traffic Management

This is not relevant. Additional measures.

Project Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
Project site vehicular traffic	Increased traffic use of road by vehicles will affect the movement of normal road traffics and the safety of the road-users.	<p>The Contractor shall</p> <ul style="list-style-type: none"> • Provide signs at strategic locations of the roads complying with the schedules of signs contained in the Bangladesh Traffic Regulations. • Install and maintain a display board at each important road intersection on the roads to be used during work, suggesting alternate road or pavement, detour and sign of inconvenience. <p style="text-align: center;">○</p>